



The Commonwealth of Massachusetts
Executive Office of Health and Human Services
Department of Public Health
William A. Hinton State Laboratory Institute
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK
GOVERNOR

TIMOTHY P. MURRAY
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD
SECRETARY

JOHN AUERBACH
COMMISSIONER

07/15/2011

Katherine Powell
Assistant District Attorney, Suffolk County

Dear ADA Powell,

Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED]
Included are copies of the following:

1. Curriculum Vitae for Annie Dookhan and Peter Piro
2. Drug Analysis Laboratory Receipt.
3. Control Cards with analytical results for samples # [REDACTED]
4. Analysis sheets with custodial chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for samples # [REDACTED]

Annie Dookhan was the custodial chemist and performed the preliminary testing and net weight for this sample. Peter Piro was the confirmatory chemist and analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

A handwritten signature in black ink, appearing to read "Annie Dookhan".

Annie Dookhan
Chemist II
Drug Analysis Lab
Jamaica Plain, MA. 02130
(617) 983-6631

Curriculum Vitae

Annie Khan (Dookhan)

Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.

University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

Experience:

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.

*Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.

*Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.

*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.

*Maintenance and repairs of all analytical instruments.

*Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.

*Responsible for the Quality Control/Quality Assurance program for the drug lab.

*Notary Public.

*Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 – 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

*Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.

*Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.

*Writing, revising and reviewing Standard Operating Procedures (SOPs).

*Trained and supervised new chemists and interns for the department.

*Routine QC testing of products for the FDA.

*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.

*Calibration, preventive maintenance, QC and QA of analytical instrumentation.

*Complete testing of chemicals for Vendor Validation Project for the FDA.

*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

Additional Training:

Dept. of Justice -- Forensics Professionals. (numerous trainings)

GLP/GMP course with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS courses with Agilent Technologies and Restek.

HPLC course with Waters Cooperation.

FTIR course with Spectros.

TOC training with MBL and Sievers.

Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

Curriculum Vitae

Peter Piro

EDUCATION

Boston University

B.A. in Chemistry and Minor in Biology, 1989

HONORS

Magna Cum Laude, 3.6 GPA

Graduated with Distinction in Chemistry

Valedictorian of the Chemistry Department

EXPERIENCE

Department of Public Health/State Laboratory Institute

Chemist III, II, I/ Assistant Analyst

December 1991-Present

Supervise the operation and maintenance of the Gas Chromatography/Mass Spectrometry Laboratory. Analyze controlled substances for State and Federal law enforcement agencies. Qualified as an expert witness in Massachusetts courts and U.S. District Court.

Massachusetts Health Research Institute

Laboratory Technician

September 1990-December 1991

Researched the seasonal and special occurrences of DSP and PSP in shellfish samples harvested from coastal waters and Georges Bank.

TRAINING AND ORGANIZATIONS

- * Completed a six-week training course by senior staff within the Department of Public Health Drug Analysis laboratory.
- * Appointed Assistant Analyst by the Assistant Commissioner of Public Health in February 1991.
- * Elected as a Regular Member to the Northeastern Association of Forensic Chemists on October 27th 1995.
- * Completed training in Mass Spectrometry given by the Food and Drug Administration/Forensic Chemistry Center on November 2002.
- * Completed training in Mass Spectrometry Troubleshooting and Maintenance, October 25th 2002, at Agilent Technologies.
- * Notary Public since 1993.

DRUG RECEIPT

CC #

BOOK #

PAGE #

DESTRUCTION #

District/Unit

Name & Rank of Arresting Officer

ID#

DEFENDANT'S NAME

ADDRESS

CITY

STATE

Weymouth

MA

Boston

MA

LAB USE ONLY

DESCRIPTION OF ITEMS SUBMITTED

GROSS
QUANTITYGROSS
WEIGHTANALYSIS
NUMBER

Tan Powder (Heroin)

2 plb's

4.52g

Tan Powder (Heroin)

1 plb

4.00g

To be completed by ECU personnel only

Name and Rank of Submitting Officer

ID#

Received by

Date

ECU Control #

No. [REDACTED] Date Analyzed: 3-21-11
City: Boston D.C.U. Police Dept.
Officer: P.O. SYBIL WHITE
Def: [REDACTED]
Amount: Subst: SUB
No. Cont: 2 Cont: pb
Date Rec'd: 03/02/2011 No. Analyzed: 1
Gross Wt.: 4.52 Net Weight: 0.12
Tests: 4 ASD
2 P.P. 2
Prelim: Heroin Findings: Heroin

No. [REDACTED] Date Analyzed: 3-21-11
City: Boston D.C.U. Police Dept.
Officer: P.O. SYBIL WHITE
Def: [REDACTED]

Amount: Subst: SUB

No. Cont: 1 Cont: pb

Date Rec'd: 03/02/2011

No. Analyzed:

Gross Wt.: 4.00

Net Weight: 0.12

Tests: 4 ASD

• 2 P.P.i.d

Prelim: Heroin

Findings:

Heroin

DRUG POWDER ANALYSIS FORM

SAMPLE # AGENCY Boston ANALYST ASN

No. of samples tested:

Evidence Wt.

PHYSICAL DESCRIPTION:

Beige powdered substance
in 2 PB

doubt bagged

Gross Wt (2): 0.8564

Gross Wt (1): 0.4112

Pkg. Wt:

Net Wt: 0.1230

PRELIMINARY TESTS

Spot Tests

Cobalt
Thiocyanate (+)

Marquis +

Froehde's +

Mecke's +

Microcrystalline Tests

Gold
Chloride

TLTA ()

OTHER TESTS

PRELIMINARY TEST RESULTS

RESULTS Heroin

DATE 3-18-11

GC/MS CONFIRMATORY TEST

RESULTS Heroin

MS
OPERATOR PJO

DATE 3-21-11

SAMPLE #	AGENCY Boston	ANALYST	ASN
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Evidence Wt.

Gross Wt (): 0.3257

Gross Wt (): _____

Pkg. Wt:

Net Wt: 0.1279

Spot Tests

Marquis ⁺

Froehde's \times

Mecke's

Gold Chloride

TLTA ()

OTHER TESTS

GC/MS CONFIRMATORY TEST

RESULTS Heroin

RESULTS Heroin

DATE 3-18-11

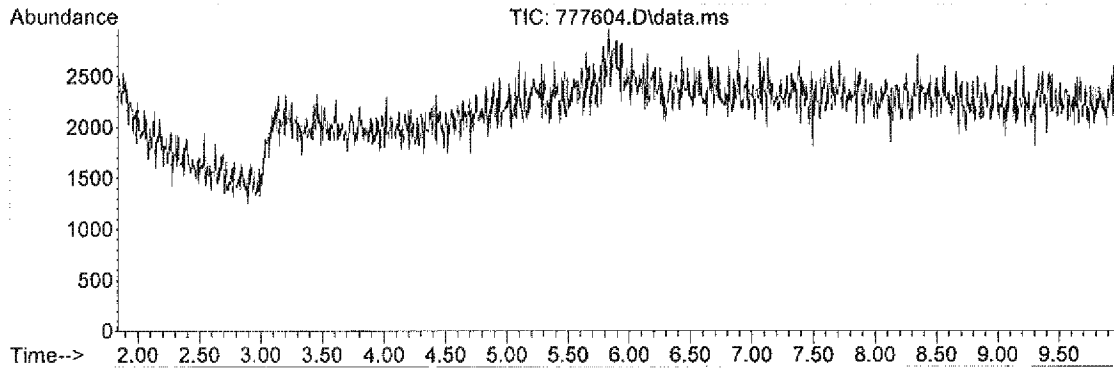
MS
OPERATOR PJP

DATE 3-21-11

✓ PPR 7-12-11

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Sample Name : BLANK
Submitted by :
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE

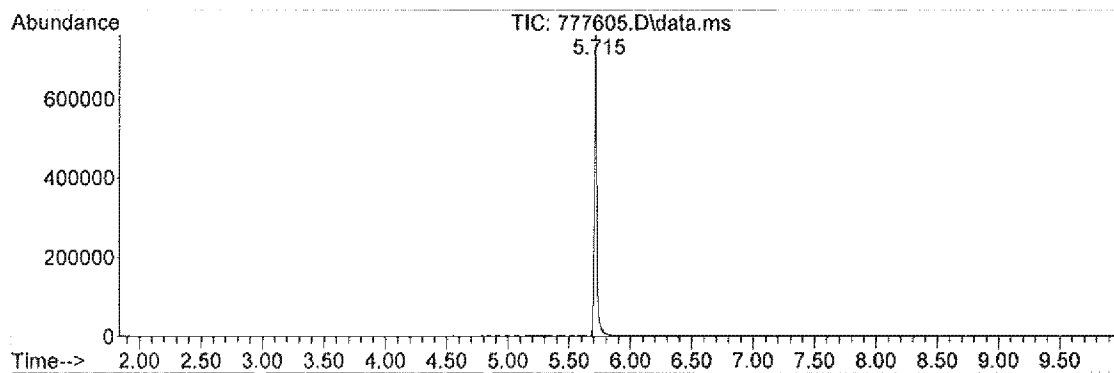


Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Information from Data File:

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Operator : ASD
Date Acquired : 19 Mar 2011 15:10
Sample Name : HEROIN STD
Submitted by :
Vial Number : 5
AcquisitionMeth: DRUGS.M
Integrator : RTE



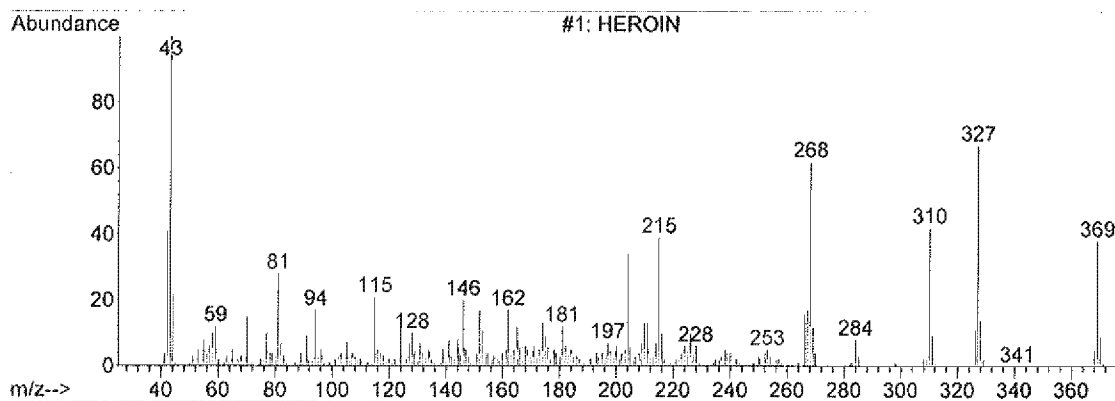
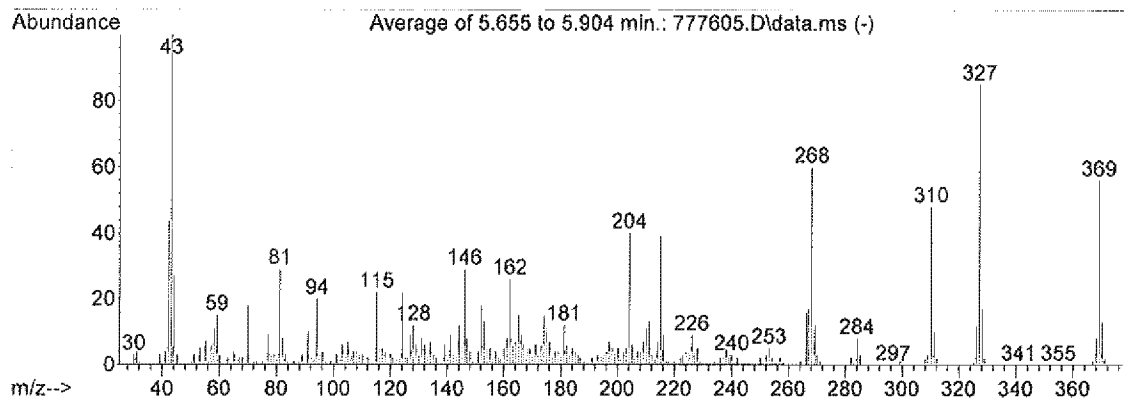
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5.715	1054093	100.00	100.00

Information from Data File:

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Sample Name : HEROIN STD
Submitted by :
Vial Number : 5
AcquisitionMeth: DRUGS.M
Integrator : RTE

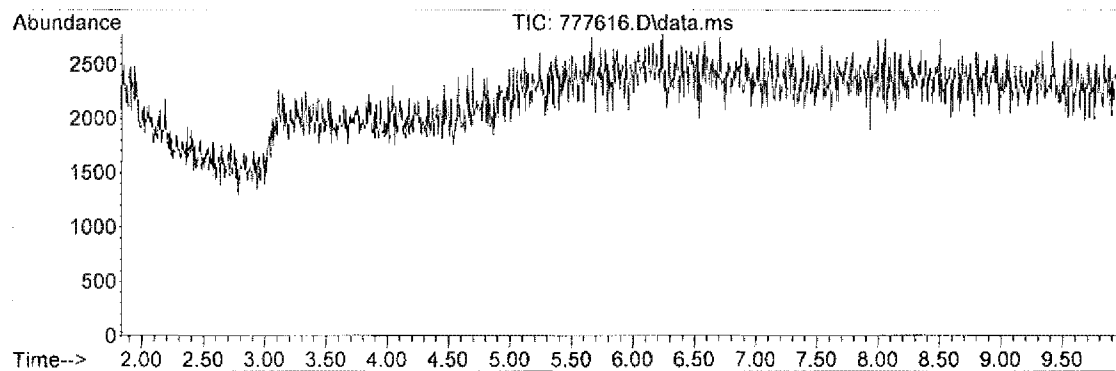
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C:\Database\NIST08.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	5.71	C:\Database\SLI.L HEROIN	000561-27-3	99



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Date Acquired : 19 Mar 2011 17:34
Sample Name : BLANK
Submitted by : ASD
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE

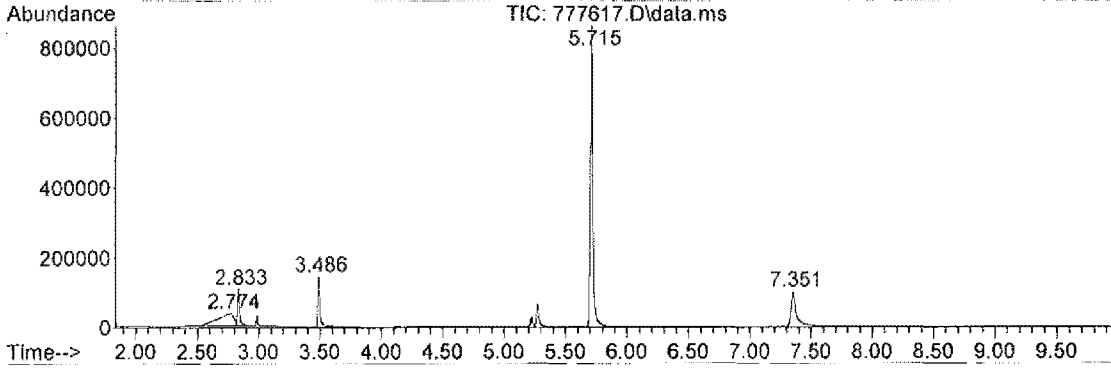


Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

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 Date Acquired : 19 Mar 2011 17:47
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 17
 AcquisitionMeth: DRUGS.M
 Integrator : RTE



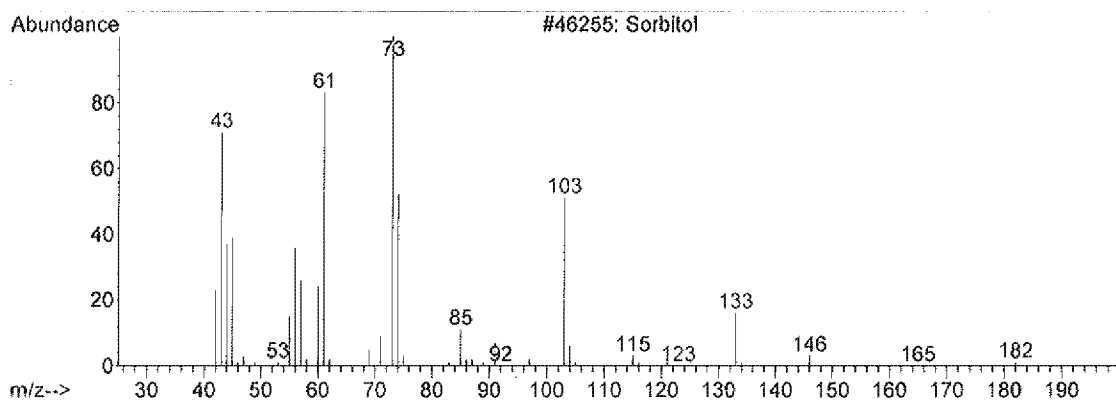
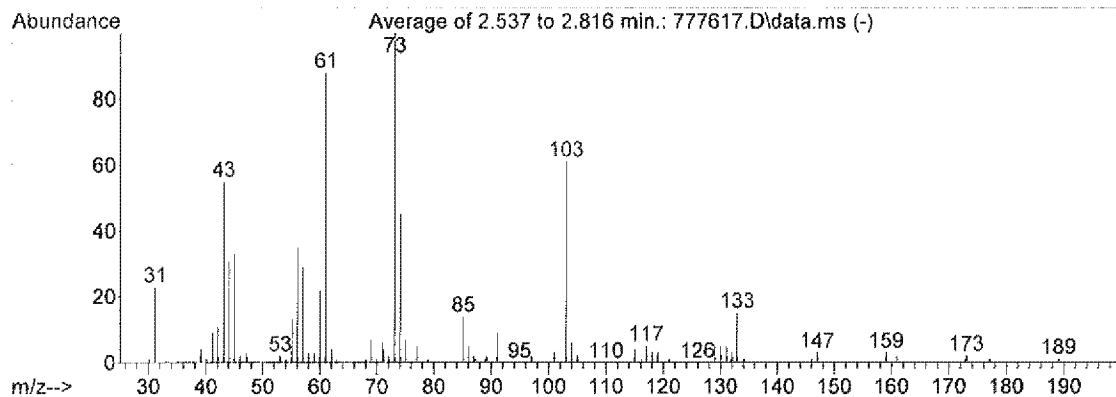
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2.833	121090	5.63	9.80
3.486	173598	8.07	14.05
5.715	1235420	57.41	100.00
7.351	303987	14.13	24.61

Information from Data File:

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Operator : ASD
Date Acquired : 19 Mar 2011 17:47
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 17
AcquisitionMeth: DRUGS.M
Integrator : RTE

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C:\Database\NIST08.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	2.77	C:\Database\NIST08.L		
		Sorbitol	000050-70-4	91
		Sorbitol	000050-70-4	91
		Glucitol	026566-34-7	91

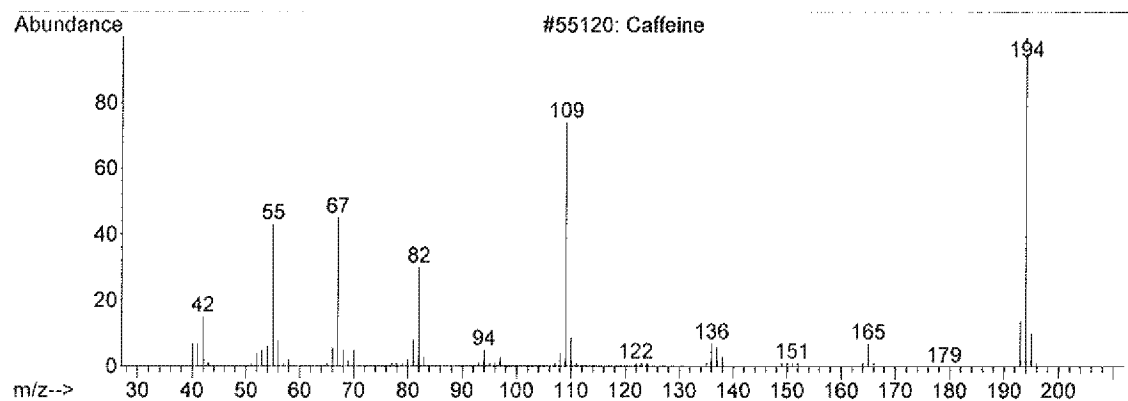
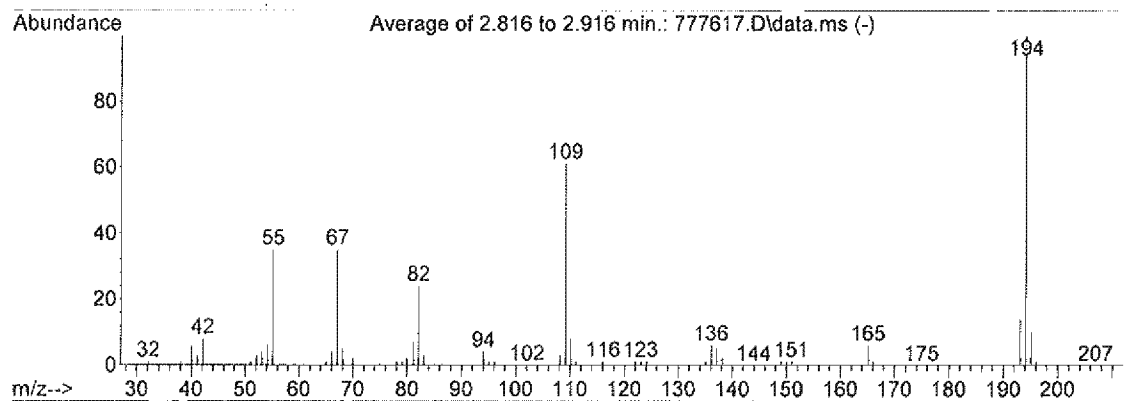


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Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 17
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST08.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	2.83	C:\Database\NIST08.L		
		Caffeine	000058-08-2	97
		Caffeine	000058-08-2	95
		Caffeine	000058-08-2	94

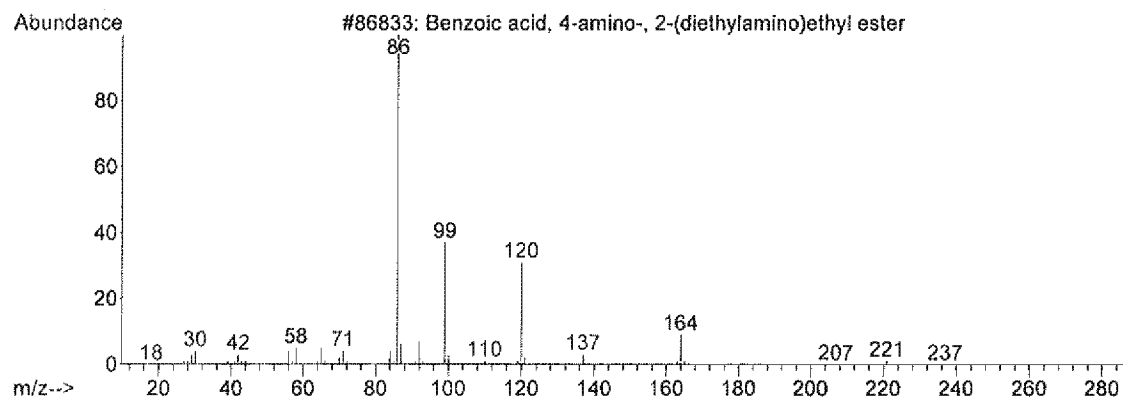
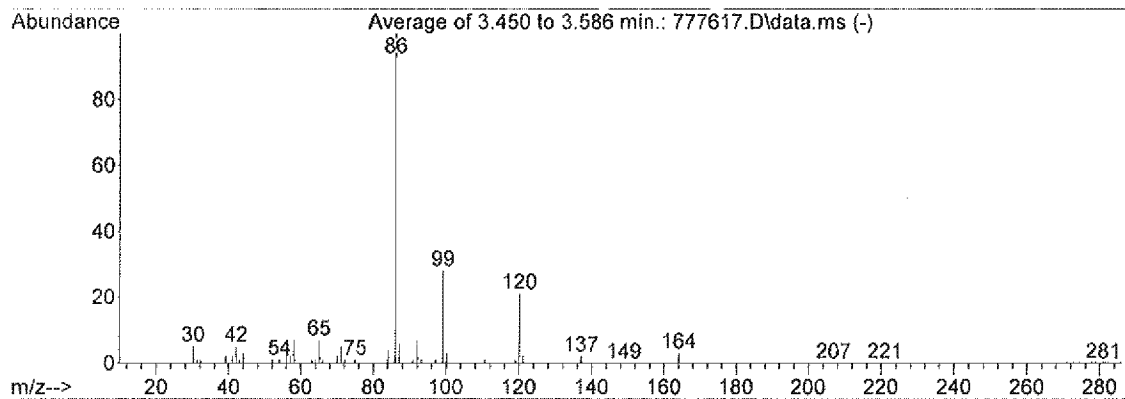


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Date Acquired : 19 Mar 2011 17:47
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 17
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST08.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
3	3.49	C:\Database\NIST08.L		
		Benzoic acid, 4-amino-, 2-(diethyla	000059-46-1	90
		Benzamide, 4-amino-N-[2-(diethylami	000051-06-9	90
		Benzamide, 4-amino-N-[2-(diethylami	000051-06-9	72

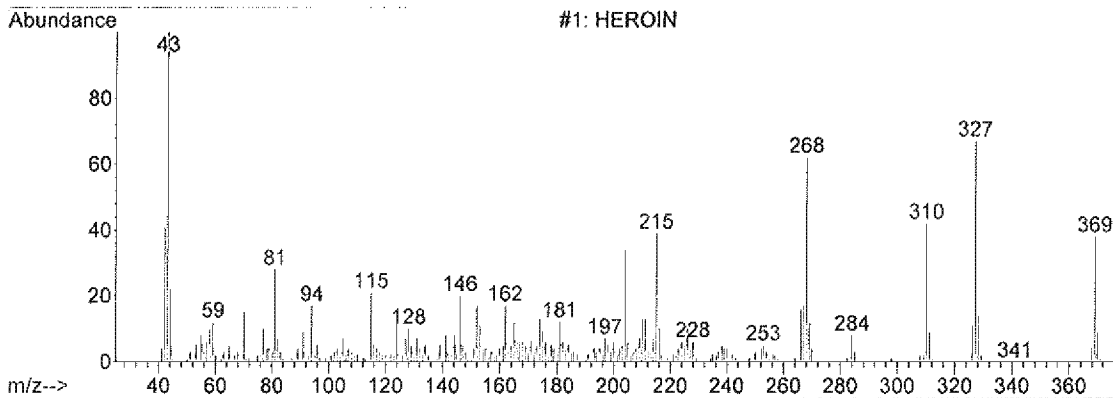
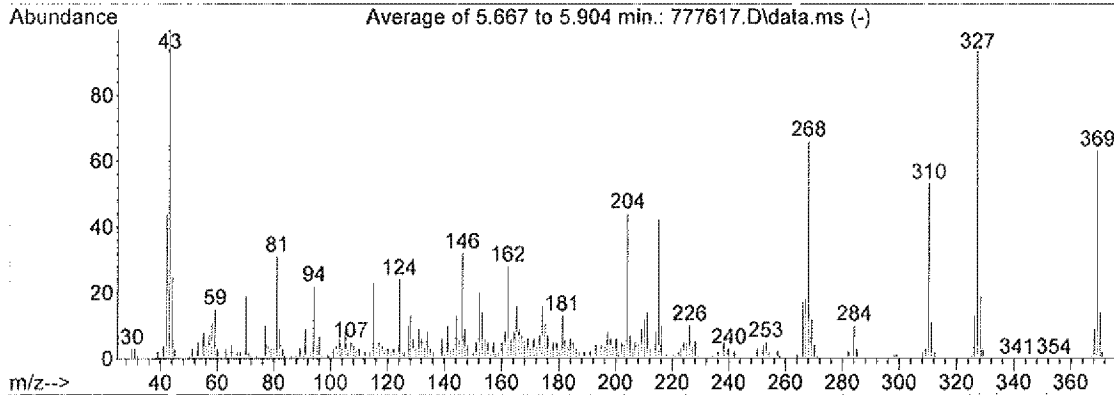


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Submitted by : ASD
Vial Number : 17
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST08.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
4	5.71	C:\Database\SLI.L HEROIN	000561-27-3	99

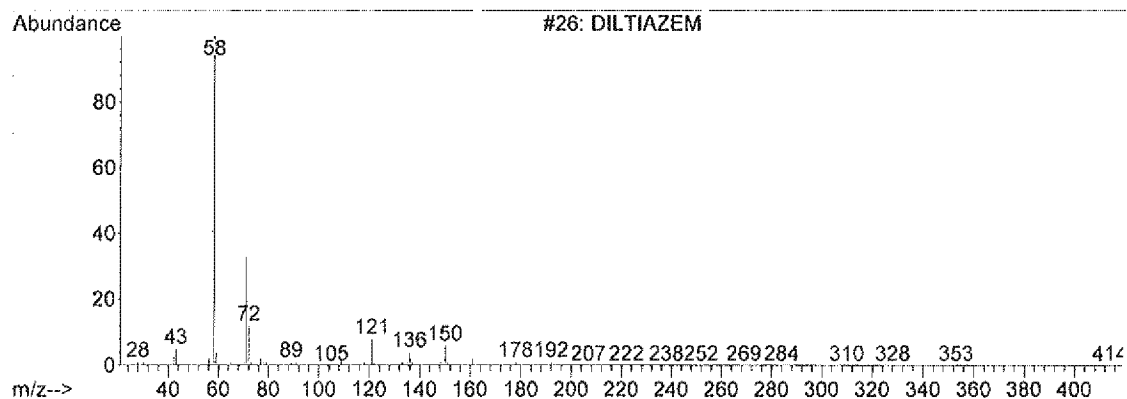
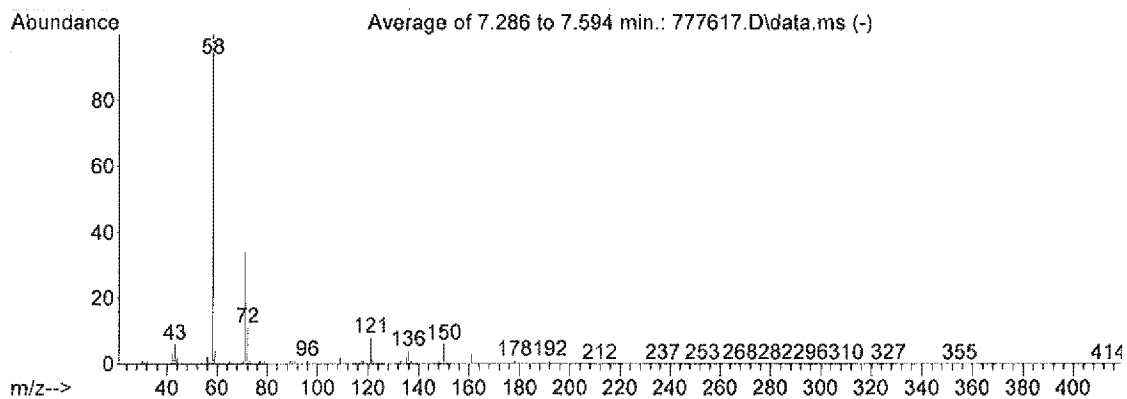


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Submitted by : ASD
Vial Number : 17
AcquisitionMeth: DRUGS.M
Integrator : RTE

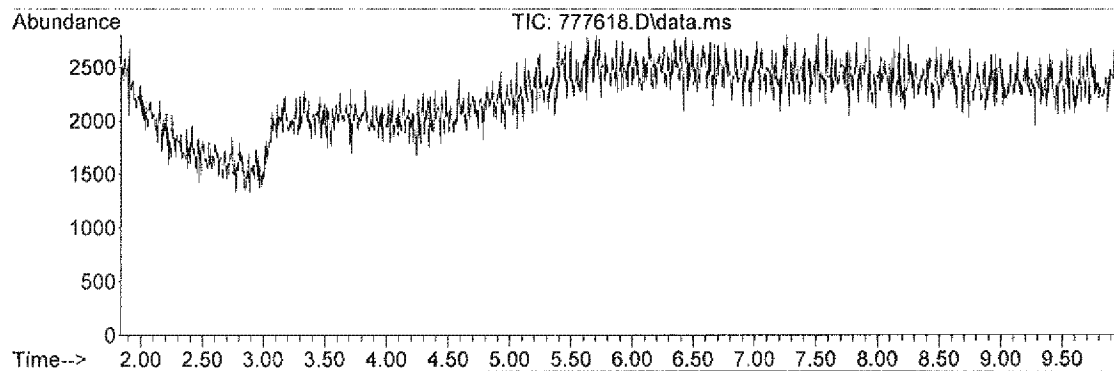
Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST08.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
5	7.35	C:\Database\SLI.L		
		DILTIAZEM	033286-22-5	91
		CITALOPRAM	059729-33-8	4
		ORPHENADRINE	000083-98-7	2



Information from Data File:

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Sample Name : BLANK
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Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE

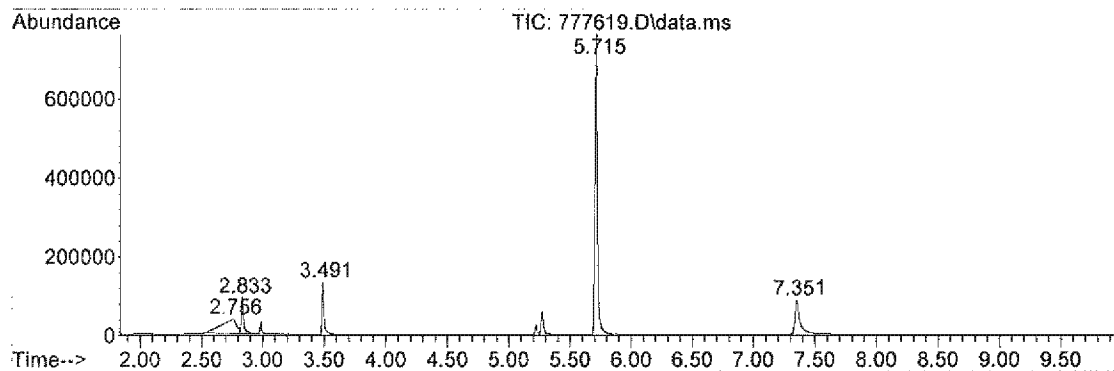


Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\03_19_11\777619.D
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Date Acquired : 19 Mar 2011 18:13
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Submitted by : ASD
Vial Number : 19
AcquisitionMeth: DRUGS.M
Integrator : RTE



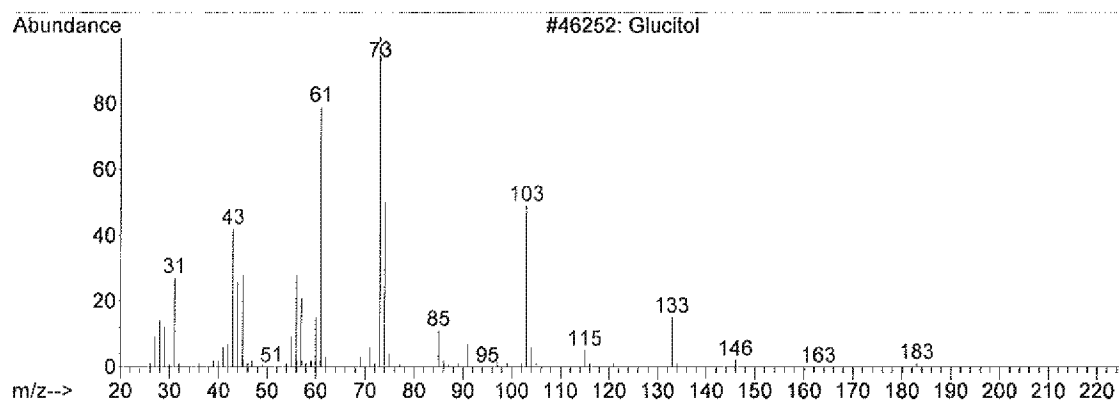
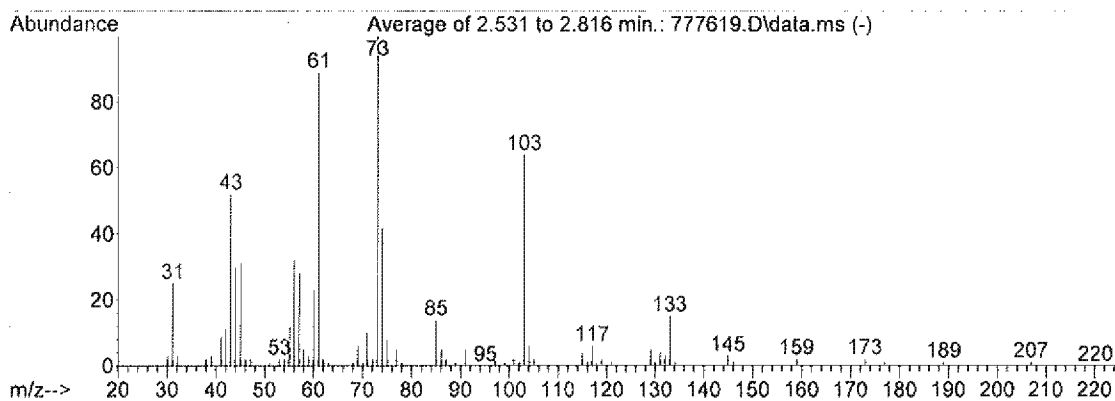
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2.833	115843	5.90	10.57
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5.715	1095697	55.85	100.00
7.351	256898	13.09	23.45

Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\03_19_11\777619.D
Operator : ASD
Date Acquired : 19 Mar 2011 18:13
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 19
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST08.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	2.76	C:\Database\NIST08.L		
		Glucitol	026566-34-7	90
		Sorbitol	000050-70-4	87
		D-Mannitol	000069-65-8	86

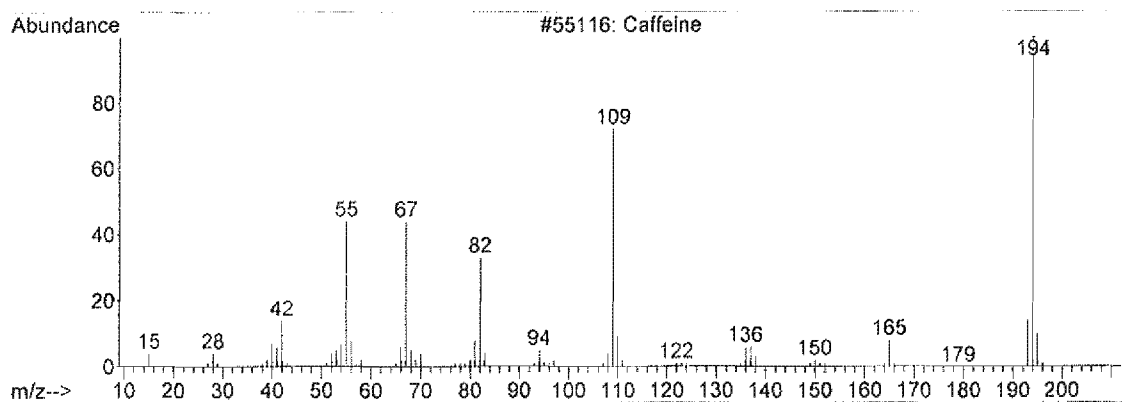
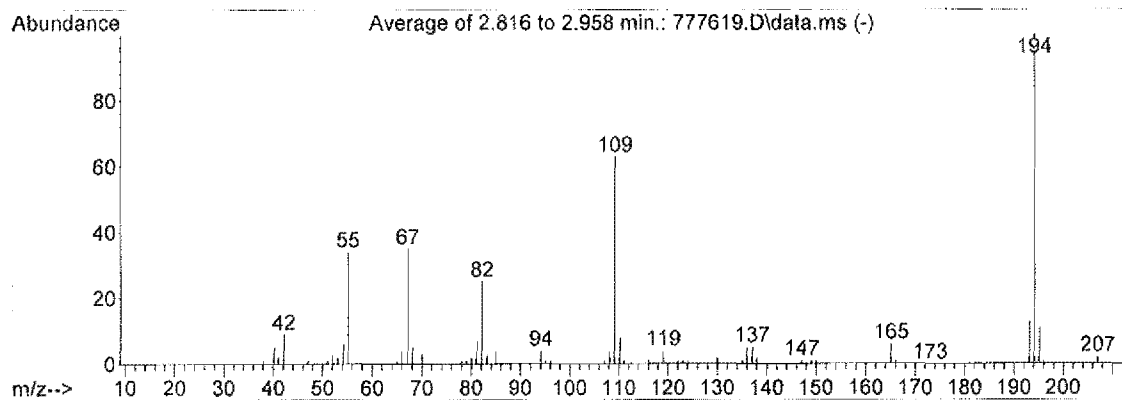


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Date Acquired : 19 Mar 2011 18:13
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 19
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST08.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	2.83	C:\Database\NIST08.L		
		Caffeine	000058-08-2	98
		Caffeine	000058-08-2	97
		Caffeine	000058-08-2	97

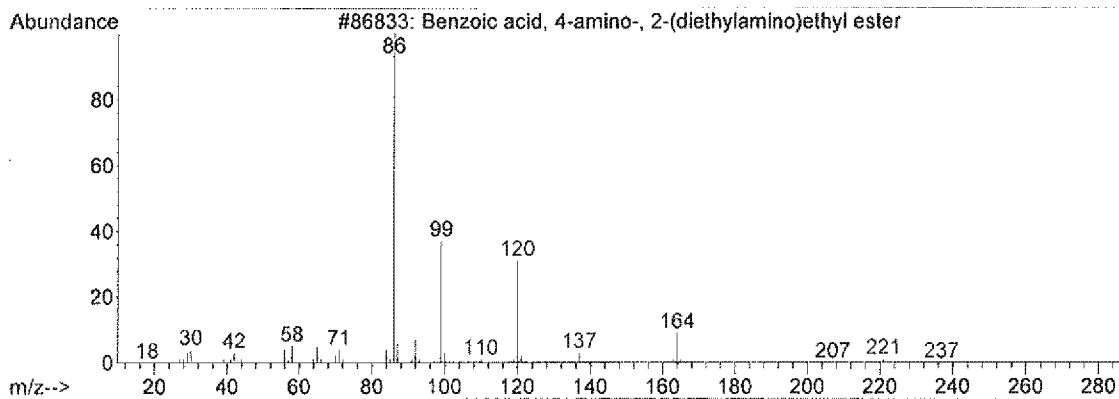
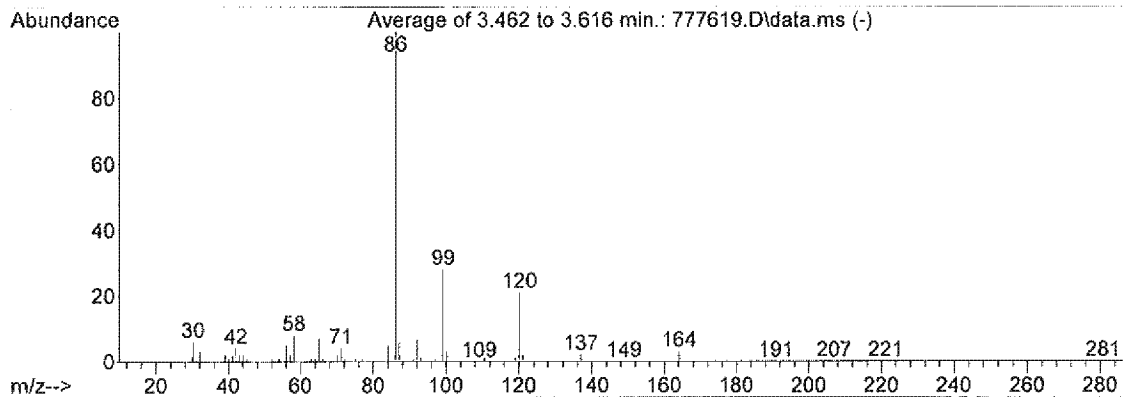


Information from Data File:

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Operator : ASD
Date Acquired : 19 Mar 2011 18:13
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 19
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST08.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
3	3.49	C:\Database\NIST08.L		
		Benzoic acid, 4-amino-, 2-(diethyla	000059-46-1	90
		Benzamide, 4-amino-N-[2-(diethylami	000051-06-9	90
		Benzamide, 4-amino-N-[2-(diethylami	000051-06-9	64

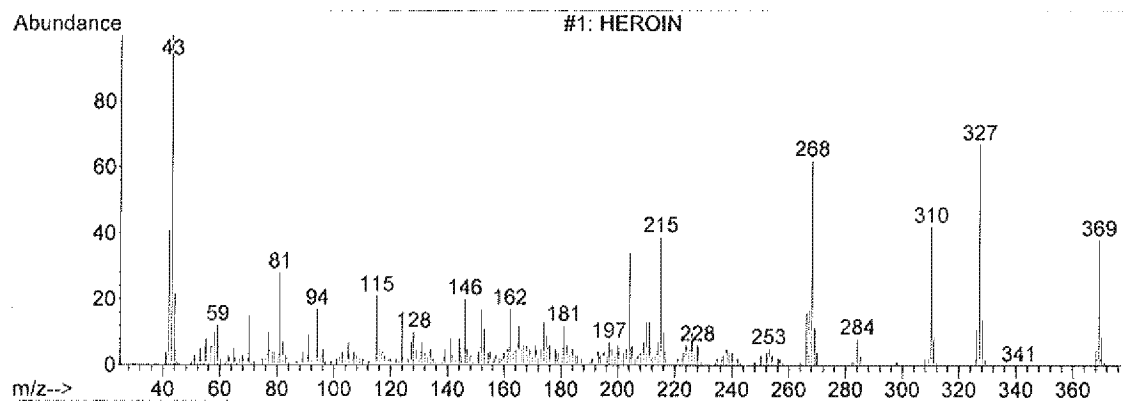
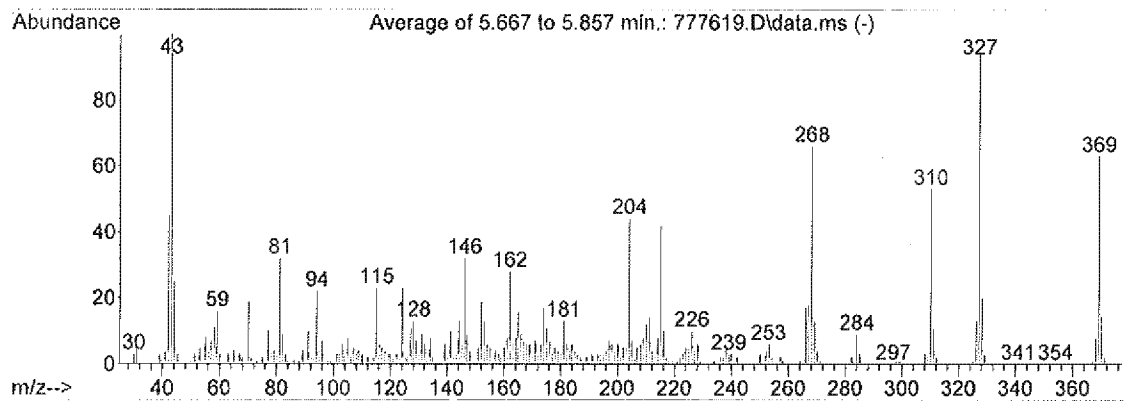


Information from Data File:

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Operator : ASD
Date Acquired : 19 Mar 2011 18:13
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 19
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST08.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
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		HEROIN	000561-27-3	99
		JWH-073	208987-48-8	2

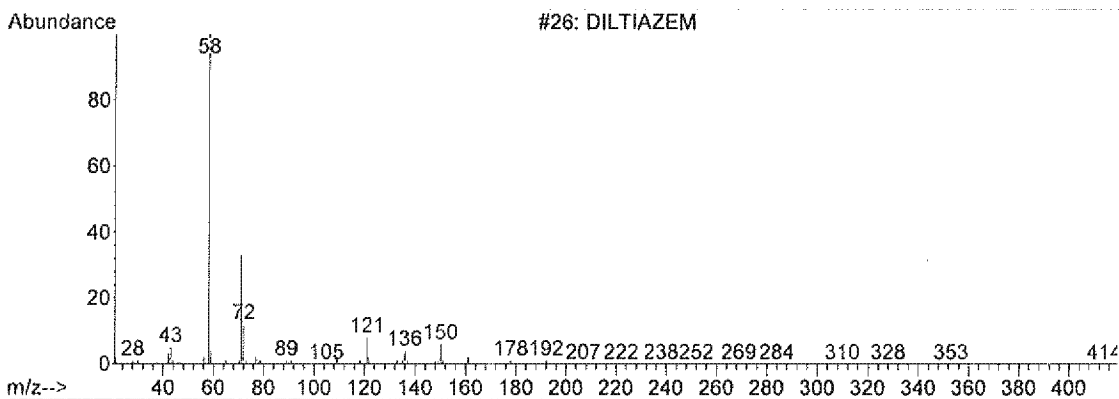
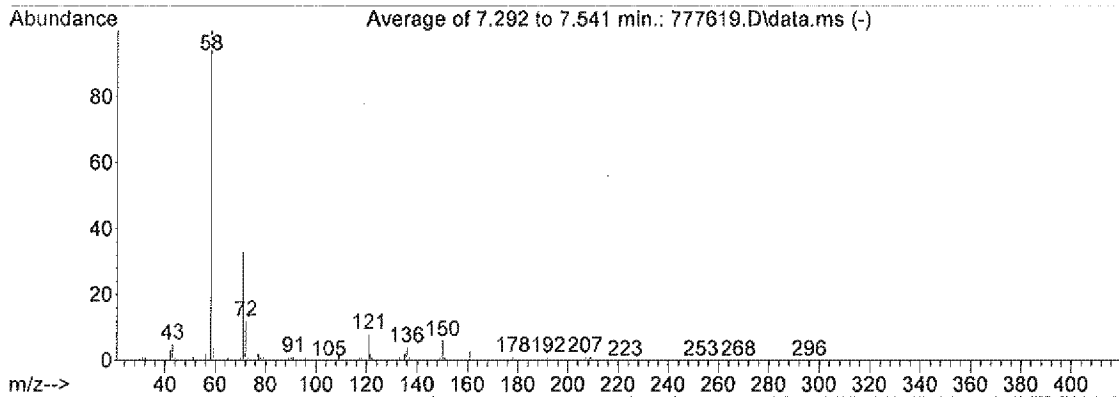


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Submitted by : ASD
Vial Number : 19
AcquisitionMeth: DRUGS.M
Integrator : RTE

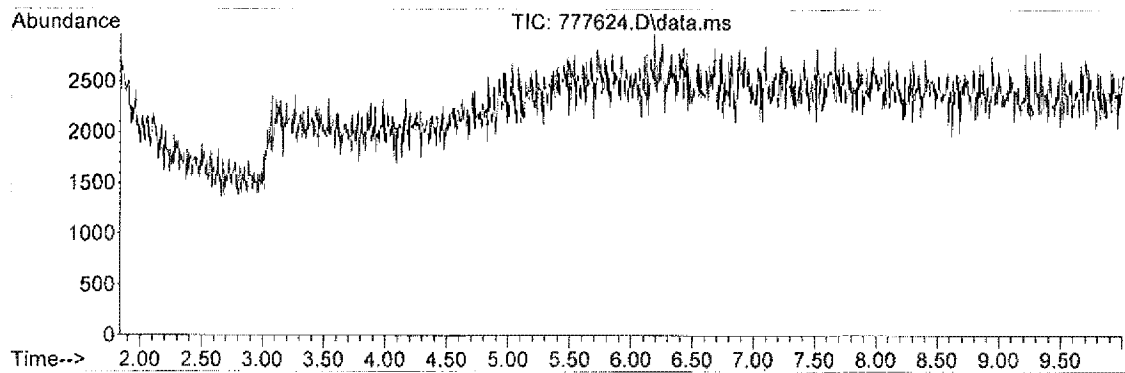
Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST08.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
5	7.35	C:\Database\SLI.L		
		DILTIAZEM	033286-22-5	91
		ORPHENADRINE	000083-98-7	2
		CITALOPRAM	059729-33-8	2



Information from Data File:

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Operator : ASD
Date Acquired : 19 Mar 2011 19:19
Sample Name : BLANK
Submitted by : ASD
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE

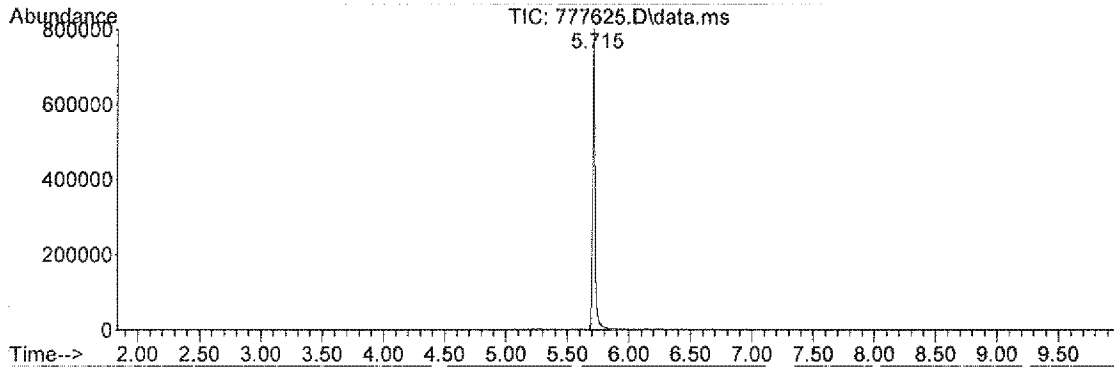


Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\03_19_11\777625.D
 Operator : ASD
 Date Acquired : 19 Mar 2011 19:32
 Sample Name : HEROIN STD
 Submitted by : ASD
 Vial Number : 5
 AcquisitionMeth: DRUGS.M
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
5.715	1119229	100.00	100.00

Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\03_19_11\777625.D
Operator : ASD
Date Acquired : 19 Mar 2011 19:32
Sample Name : HEROIN STD
Submitted by : ASD
Vial Number : 5
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST08.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	5.71	C:\Database\SLI.L HEROIN	000561-27-3	99

